



Administrative County of Middlesex.

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# ANNUAL REPORT

OF THE

MEDICAL SUPERINTENDENT OF CENTRAL  
MIDDLESEX COUNTY HOSPITAL

FOR THE

YEAR 1936.

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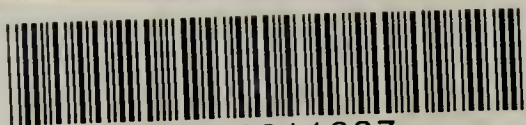
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ANNUAL REPORT OF THE MEDICAL SUPERINTENDENT ON THE WORK OF  
CENTRAL MIDDLESEX COUNTY HOSPITAL FOR THE YEAR 1936

Staff.

WHOLE-TIME MEDICAL STAFF.

*Medical Superintendent.*

H. Carter, M.B., Ch.B., F.R.C.S.E., M.C.O.G.

*Deputy Medical Superintendent and Senior Physician.*

H. Joules, M.D., B.S., M.R.C.P.

*Senior Surgeon.*

T. G. I. James, M.B., B.Sc., M.Ch., F.R.C.S. (Eng. and Edin.).

*Surgeon.*

N. M. Matheson, M.B., B.Ch., F.R.C.S. (Eng.), M.R.C.P.

*Assistant Medical Officers.*

A. D. Abdullah, M.B., Ch.M., M.R.C.P.

J. Sakula, M.D., B.S., M.R.C.P.

J. S. MacVine, M.B., B.S., M.C.O.G., M.R.C.S., L.R.C.P.

H. Canwarden, M.R.C.S., L.R.C.P., D.A., M.M.S.A., M.C.O.G.

VISITING MEDICAL STAFF.

*Radiologist.*

A. Flett, M.D., D.M.R.E.

*Electro-Therapist.*

C. A. Robinson, M.A., M.B., B.Ch., D.M.R.E.

*Psychiatrist.*

G. W. Shore, O.B.E., M.D., B.S., D.P.M., D.P.H.

*Dental Surgeon.*

W. Moodie, L.R.C.P., L.R.C.S., L.D.S.

NURSING STAFF.

*Matron*—Miss B. Gebhard.

Administrative Sisters	..	..	7	Staff Nurses	..	..	..	52
Departmental Sisters	..	..	7	Staff Nurse midwifery pupils	..	..	..	10
Ward and Night Sisters	..	..	29	Probationer Nurses	..	..	..	127
Masseuses	..	..	..	3	Mental Nurses	..	..	19
Male Nurses	..	..	..	9	Assistant Nurses	..	..	62

General Observations.

It is a fortunate coincidence that the hospital has obtained the benefits of the Public Health Act during 1936, at a time when the demands for the treatment of acute illness and injury have become so pressing in this area. The increases in the medical and nursing staff have enabled a much greater number of patients to be treated, but of particular significance has been the greater personal attention and care to patients which these changes have made possible. Noteworthy also is the appreciation of the local medical practitioners in obtaining the admission of patients, by direct arrangement with the hospital.

Dr. Joules, the Senior Physician, has given me much help with the medical cases, and the increasing practice of classification of cases has permitted more adequate specialisation in treatment. Additionally, with the assistance of the Sister Dietitian, a department for specialised dietary has been developed,

and it is hoped that it will eventually be possible to set aside a male and female ward for cases, both medical and surgical, which are likely to benefit from special dietary.

Patients with pulmonary tuberculosis are now treated in wards devoted exclusively to this disease, while the enlarged and modernised block for patients under mental observation has provided more adequate facilities.

Out-patient clinics for children, psychiatric cases and adult medical cases have been established. The electro-cardiographic department has been functioning throughout the year.

The surgical work has been considerably re-arranged, and cases are now sent direct from the admission department to the staff concerned with the particular condition, and the wards best adapted for the treatment. Mr. James, the Senior Surgeon, for instance, is in charge of cases of cerebral disease, also orthopædic and fracture cases; Mr. Matheson, on the other hand, has developed a urological department for patients with genito-urinary disease. The surgical statistics for the year show a greatly increased number of cases of a major character, and the operating theatre has been needed almost every night for acute surgical emergencies, with the result that the surgical work is over-taxing the two surgeons, and further assistance is now needed.

The improvised maternity department has been occupied to capacity, and overflow cases have occupied other side wards. The good results achieved reflect credit on the resident obstetrical officer, Dr. MacVine, and the maternity staff who have maintained a very high standard by sound technique, timely segregation, and careful attention to the ante-natal clinics. For a number of women, accommodation had to be found elsewhere. The completion of the new maternity unit is an urgent necessity.

The use of anæsthesia or analgesia for normal, as well as complicated, cases, has been the routine practise at this hospital for several years.

Formerly chloroform capsules were used to produce analgesia, but in October, 1936, gas and oxygen with a Minnett's apparatus was substituted, and this method of producing analgesia has now become the standard practise for normal confinements.

The number of out-patients and follow-up cases has much increased, but further development is restricted until the new out-patient department is built.

The children's wards have been particularly free from infection, except for an outbreak of gastro-enteritis of a dysenteric type (Dec. 1935—Feb. 1936). In addition to cubicle isolation, the cases are now "barrier nursed," and it is my view that cross-infection has been minimised by this means.

Over 250 patients occupying beds in the chronic wards, quite a number for over twenty years, have been reviewed; the great majority could be more suitably accommodated in homes or special institutions to free the beds for cases where hospital treatment is a necessity.

A forty-eight hour week for the nursing staff, and non-resident arrangements for trained staff have been introduced, without any detriment to the patients.

The Almoner's department, begun in July, is developing successfully, and will in time be a great asset.

Four modernised wards have been completed and newly equipped with up-to-date beds and furniture. The staff, owing to labour-saving devices, and the patients, because of the extra comfort and cheerfulness, are alike enthusiastic over the transformation.

Throughout the year, a great deal of time has been spent in inter-departmental discussions to improve the internal arrangements and meet the changing conditions of the hospital.

#### Days and Times of Specialists' Attendances and Out-Patient Clinics.

Monday	..	..	10.0 a.m.	Ante-natal clinic. (New cases.)
			1.30 p.m.	Genito-urinary clinic.
			2.0 p.m.	Radiologist attends.
Tuesday	..	..	9.30 a.m.	Electro-therapist attends.
			10.0 a.m.	Ante-natal clinic. (Old cases.)
			1.30 p.m.	Medical Out-patients.
Wednesday	..	..	11.0 a.m.	Children's Clinic.
			2.0 p.m.	Radiologist attends.
			2.0 p.m.	Dental Surgeon attends.
Thursday	..	..	10.0 a.m.	Dental Surgeon attends.
Friday	..	..	9.30 a.m.	Orthopædic and fracture clinic.
			9.30 a.m.	Electro-therapist attends.
			10.0 a.m.	Radiologist attends.
			2.0 p.m.	Psychiatric clinic.



Beds.

	Males.	Females.	Children.
Acute medical .. .. .	74	172	36
Acute surgical .. .. .	70	72	36
Chronic sick .. .. .	140	182	—
Mental (short stay) .. .. .	7	7	—
Tuberculosis .. .. .	8	8	—
Maternity .. .. .	—	28	28
Nursery .. .. .	—	—	50
Totals .. .. .	299	469	150

Total number of beds .. .. .	918
Daily average number of beds occupied .. .. .	786
Maximum number of beds occupied .. .. .	853—on 24th March, 1936.
Minimum number of beds occupied .. .. .	712—on 4th September, 1936.

Statistical Tables for the Year ended 31st December, 1936.

Remaining in hospital, 1st January, 1936 .. .. .	809
Admitted .. .. .	7,439
Born in hospital .. .. .	722
	8,970
Discharged .. .. .	7,076
Died .. .. .	1,067
	8,143
Remaining in hospital on 31st December, 1936 .. .. .	827

Classification of In-Patients.

Male infants under 3 .. .. .	752
Boys, 3-16 .. .. .	431
Men .. .. .	2,445
	3,628
Female infants under 3 .. .. .	604
Girls, 3-16 .. .. .	297
Women .. .. .	3,614
	4,515
Total .. .. .	8,143

I.—TABLE SHOWING DURATION OF STAY OF THE 8,143 PATIENTS DURING THE YEAR.

Four weeks or less .. .. .	6,427
Exceeding four weeks but under thirteen weeks .. .. .	1,310
Exceeding thirteen weeks .. .. .	406
Total .. .. .	8,143

II.—TABLE SHOWING DISPOSAL OF THE 8,143 PATIENTS.

Home .. .. .	6,402
To public assistance institutions .. .. .	160
Fever hospitals .. .. .	100
Sanatoria .. .. .	43
Convalescent homes .. .. .	34
Mental hospitals .. .. .	328
Voluntary hospitals .. .. .	9
Died .. .. .	1,067
Total .. .. .	8,143

III.—TABLE SHOWING THE RESULTS OF TREATMENT.

									Per cent.
Cured	..	..	..	..	..	..	..	4,747	58·3
Relieved	..	..	..	..	..	..	..	1,730	21·24
In <i>statu quo</i>			..	..	..	..	..	599	7·36
Died	..	..	..	..	..	..	..	1,067	13·1
								8,143	100·00

Deaths.

Ages.					Male.	Female.	Total.
Under 1 year	..	..	..	..	43	38	81
1-5 years	..	..	..	..	9	11	20
5-10 years	..	..	..	..	8	3	11
10-15 years	..	..	..	..	5	3	8
15-20 years	..	..	..	..	9	5	14
20-30 years	..	..	..	..	30	26	56
30-40 years	..	..	..	..	35	30	65
40-50 years	..	..	..	..	46	36	82
50-60 years	..	..	..	..	97	49	146
60-70 years	..	..	..	..	131	83	214
70-80 years	..	..	..	..	120	124	244
Over 80 years	..	..	..	..	49	77	126
Totals	..	..	..	..	582	485	1,067

Deaths within 24 hours of admission	..	..	130
Deaths within 48 hours of admission	..	..	64
Deaths within 72 hours of admission	..	..	65
			259
All other deaths	..	..	808
Total	..	..	1,067

IV.—TABLE SHOWING THE DISTRICTS TO WHICH THE 8,143 PATIENTS BELONGED.

Willesden	..	..	..	..	..	..	5,557
Acton	..	..	..	..	..	..	1,801
Hendon and Harrow	..	..	..	..	..	..	606
Other areas	..	..	..	..	..	..	179
Total	..	..	..	..	..	..	8,143

V.—TABLE SHOWING HOW THE 8,143 PATIENTS WERE ADMITTED.

By relieving officers' orders	..	..	..	..	..	1,967
By Medical Superintendent—						
Births	..	..	..	..	..	737
Police cases (other than accidents)	..	..	..	..	..	54
Accidents	..	..	..	..	..	57
Maternity cases (emergency)	..	..	..	..	..	679
Transfers	..	..	..	..	..	73
Other cases	..	..	..	..	..	4,576
Total	..	..	..	..	..	8,143



VI.—CLASSIFICATION OF THE DISEASES FOR WHICH THE 8,143 PATIENTS WERE  
PRIMARILY TREATED.

Disease or Condition.	Children under 16 Years of Age.		Men and Women.	
	Dis- charged.	Died.	Dis- charged.	Died.
Acute infectious disease .. .. .	136	5	117	41
Influenza .. .. .	1	—	17	6
Tuberculosis, pulmonary .. .. .	1	1	75	59
„ non-pulmonary .. .. .	1	1	14	1
Malignant disease .. .. .	—	2	80	170
Rheumatism, acute .. .. .	26	3	98	8
„ non-articular .. .. .	—	—	21	—
„ chronic arthritis .. .. .	5	—	100	4
Venereal disease .. .. .	3	—	23	2
Puerperal pyrexia .. .. .	—	—	3	—
„ fever (a) Women confined in Hospital .. .. .	—	—	—	—
„ „ (b) Admitted from outside .. .. .	—	—	—	—
Diseases of child-bearing .. .. .	—	25	477	4
Mental diseases (a) senile dementia .. .. .	—	—	21	8
„ „ (b) other .. .. .	3	—	393	3
Senile decay .. .. .	—	—	133	144
Accidental injury and violence .. .. .	144	1	468	18
Disease of nervous system and sense organs .. .. .	108	7	216	22
„ respiratory system .. .. .	128	23	308	118
„ circulatory system .. .. .	3	2	254	219
„ digestive system .. .. .	253	27	807	62
„ genito-urinary system .. .. .	32	2	289	34
„ skin .. .. .	106	—	165	8
Other diseases .. .. .	140	15	334	21
Maternity, mothers .. .. .	—	—	683	—
„ infants .. .. .	726	—	—	—
No disease .. .. .	154	—	10	1
Totals .. .. .	1,970	114	5,106	953

Grand total . . . . . 8,143

*In-patients—Diseases and Conditions.*  
(Grouped in order of frequency.)

	<i>Treated.</i>	<i>Died.</i>
Pregnancy, parturition and puerperium .. .. .	1,163	4
Diseases of the digestive system .. .. .	1,060	89
Births .. .. .	726	25
Injuries—general and local .. .. .	612	19
Diseases of the respiratory system .. .. .	436	141
Diseases of the circulatory system .. .. .	257	221
Mental diseases .. .. .	417	11
Diseases of the genito-urinary system .. .. .	321	36
Diseases of the nervous system .. .. .	324	29
Acute infectious diseases .. .. .	253	46
Diseases of skin and areolar tissue .. .. .	271	8
Senile decay .. .. .	133	144
Rheumatism .. .. .	250	15
Malignant diseases .. .. .	80	172
Tuberculosis .. .. .	91	62
Venereal diseases .. .. .	26	2
Influenza .. .. .	18	6
Diseases of remaining groups .. .. .	638	37
Totals .. .. .	7,076	1,067

*Mental Patients.*

	Male.	Female.	Total.
Number remaining in wards on 31st December, 1935 ..	—	—	—
Number of admissions during the year .. ..	121	243	364
Number of discharges to wards (not certified) ..	27	57	84
Number of discharges, care of friends (not certified) ..	3	13	16
Number transferred to mental hospitals .. ..	90	167	257
Number died .. .. .	1	2	3
Number remaining in wards on 31st December, 1936 ..	—	4	4

*Analysis of Admissions of Mental Patients.*

	Male.	Female.	Total.
Placed under order by Medical Superintendent .. ..	38	92	130
"    "    relieving officers (Willesden) .. ..	15	18	33
"    "    relieving officers (Hendon) .. ..	23	83	106
"    "    relieving officers (Aeton) .. ..	4	12	16
"    "    justices or police .. .. .	36	29	65
Transfers from Redhill Institution .. .. .	5	9	14
Totals .. .. .	121	243	364

Voluntary Patients transferred to Shenley Mental Hospital .. .. . 35

Temporary Patients transferred to Shenley Mental Hospital .. .. . 17

**Work of the Special Departments.**

1. Surgical .. .. .	Major operations .. .. .	1,344	
	Minor operations .. .. .	1,503	
			2,847
2. Anaesthetics .. .. .	General .. .. .	1,193	
	Local .. .. .	668	
	Spinal .. .. .	226	
			2,087
3. Radiological .. .. .	Investigations .. .. .	5,047	
	Radiograms .. .. .	10,583	
4. Massage .. .. .	Patients treated .. .. .	440	
	Treatments .. .. .	9,614	
5. Electrical treatment .. .. .	Patients treated .. .. .	408	
	Attendances .. .. .	6,884	
	Treatments .. .. .	14,988	
6. Dental .. .. .	Patients treated .. .. .	164	
	Extractions .. .. .	573	
	Dentures and repairs .. .. .	40	
7. Psychiatric .. .. .	Patients treated .. .. .	234	
	Attendances .. .. .	588	
8. Maternity .. .. .	Women examined at ante-natal clinic .. .. .	849	
	Attendances at ante-natal clinic .. .. .	3,054	
	Deliveries .. .. .	748	
	Obstetric operations .. .. .	105	
9. Pathological .. .. .	Investigations (carried out at Central Middlesex County Hospital) .. .. .	3,613	
	Investigations (carried out at other hospitals) .. .. .	2,599	
10. Out-patients .. .. .	Number of patients seen .. .. .	3,665	
	Number of attendances .. .. .	15,119	
	Number who had received in-patient treatment previously .. .. .	363	
	Number who were subsequently admitted for in-patient treatment .. .. .	25	
11. Nurses' sick room-admissions .. .. .		133	

1. Department of Surgery.

ANALYSIS OF OPERATIONS PERFORMED DURING THE YEAR.

On skull, brain and spine .. .. .	26
On sympathetic nervous system .. .. .	9
On abdomen and its contents .. .. .	684
On kidney and urinary tract .. .. .	227
On male generative organs.. .. .	105
On female generative organs (gynæcological) .. .. .	216
"            "            (obstetrical) .. .. .	105
On bones, joints and tendons .. .. .	207
Amputations .. .. .	23
On veins and arteries.. .. .	24
On thorax and its contents .. .. .	30
On ear, nose and throat .. .. .	177
On eye .. .. .	153
Skin and superficial structures .. .. .	844
Miscellaneous .. .. .	17
<b>Total .. .. .</b>	<b>2,847</b>

The following figures relate to operations of special interest or those most commonly performed during the year :—

*On skull, brain, spine and nervous system (35)—*

For compound depressed fracture of skull .. .. .	1
For cerebral tumour .. .. .	4
For extra-dural abscess .. .. .	1
For cerebral abscess .. .. .	7
Ventricular estimation and ventriculography .. .. .	3
Tapping of ventricle .. .. .	6
Encephalography .. .. .	2
Injections for trigeminal neuralgia .. .. .	2
Sympathectomy .. .. .	3
On Brachial plexus .. .. .	1

*On abdomen and its contents (684)—*

Splenectomy .. .. .	1
For pyloric stenosis .. .. .	5
Partial gastrectomy .. .. .	1
Gastrectomy .. .. .	4
Gastro-enterostomy .. .. .	8
For peptic ulcer .. .. .	27
Cholecystectomy, cholecystotomy .. .. .	16
Appendicectomy .. .. .	209
Appendicectomy with drainage .. .. .	69
Enterostomy, colostomy with or without resection .. .. .	36
For intestinal obstruction .. .. .	22
Herniotomy (17 strangulated) .. .. .	65
Rectal operations .. .. .	94
Laparotomy exploration, drainage, etc. .. .. .	71

*On kidney, ureter and bladder (227)—*

Cystoscopy .. .. .	117
Cystoscopy with ureteric catheterization .. .. .	80
Suprapubic cystotomy, cystectomy .. .. .	18
Nephrectomy, nephrotomy .. .. .	9



On male generative organs (105)—

Orchidectomy .. .. .	1
Suprapubic prostatectomy .. .. .	8
Steinach's operation .. .. .	8
For urethral stricture .. .. .	57
Circumcision .. .. .	10

On female generative organs (216)

Hysterectomy .. .. .	7
On tube and/or ovary .. .. .	13
For ectopic gestation .. .. .	7
Curettage and evacuation of uterine contents .. .. .	148
Plastic on vagina .. .. .	5

On bones, joints and tendons (207)—

For fractures .. .. .	176
For osteomyelitis .. .. .	12
On tendons, bursæ and cartilage .. .. .	6
Amputations .. .. .	23
For T.B. spine and hips .. .. .	13

On ear, nose and throat (177)—

Mastoidectomy .. .. .	47
Myringotomy .. .. .	9
Tonsillectomy .. .. .	66
Tracheotomy .. .. .	3

Analysis of Fractures and Dislocations during the year, together with the results of treatment.

Bone or Joint.	Result.		Total.
	Discharged.	Died.	
Skull .. .. .	11	3	14
„ with concussion .. .. .	7	2	9
Vertebræ .. .. .	3	1	4
Ribs .. .. .	16	—	16
Clavicle .. .. .	12	—	12
Scapula .. .. .	7	—	7
Humerus .. .. .	13	1	14
Radius or ulna or both .. .. .	19	2	21
Carpus, metacarpus or phalanges .. .. .	4	—	4
Pelvis .. .. .	14	1	15
Femur .. .. .	26	12	38
Patella .. .. .	8	—	8
Tibia .. .. .	16	—	16
Fibula .. .. .	13	—	13
Tibia and fibula (simple and compound) .. .. .	14	—	14
Tarsus, metatarsus or phalanges .. .. .	12	—	12
Multiple bony injuries (simple and compound).. .. .	10	1	11
Fracture-dislocations, various .. .. .	24	—	24
Dislocations, various .. .. .	9	—	9
Separated epiphyses .. .. .	2	—	2
Totals .. .. .	240	23	263

Male fracture cases .. .. .	175
Female fracture cases .. .. .	88
Total .. .. .	263

2. Department of Anaesthetics.

*Analysis of Anæsthetics administered in Theatre during the Year.*

<i>General—</i>							
Anæsthesia by chloroform, ether or mixture	..	..	..	..	..	..	978
„ nitrous oxide	..	..	..	..	..	..	68
„ ethyl chloride	..	..	..	..	..	..	26
„ evipan (intravenous)	..	..	..	..	..	..	30
„ ether and nitrous oxide	..	..	..	..	..	..	83
„ ether and ethylene	..	..	..	..	..	..	3
„ ethylene	..	..	..	..	..	..	5
							— 1,193
<i>Spinal—</i>							
Anæsthesia by intrathecal injection..	..	..	..	..	..	..	226
<i>Local—</i>							
Anæsthesia by infiltration	..	..	..	..	..	..	418
„ application to mucous membrane					..	..	172
„ ethyl chloride	..	..	..	..	..	..	78
							— 668
Total	..	..	..	..	..	..	— 2,087

3. Radiological Department.

Number of In-patients radiographed	..	..	..	..	4,014
Number of Out-patients radiographed	..	..	..	..	1,033
Total	..	..	..	..	— 5,047

*Analysis of investigations made during the year—*

	No. of Cases.	No. of Radiographs.
Skull	365	1,306
Lungs	1,196	1,473
„ pleuræ	204	268
Heart	119	224
Biliary passages	82	158
Alimentary system	635	1,615
Urinary system	406	1,133
Generative system	89	170
Bones (injured)	1,295	2,647
Bones (disease)	563	1,440
Teeth	3	23
Miscellaneous	60	126
	— 5,047	— 10,583

*Special methods of investigation (included in above table)—*

Barium meals	411
Barium enemas	120
Barium swallows	30
Cholecystograms	59
Urograms	95
Pyelograms	62
Lipiodol	28
Encephalograms	8
Ventriculograms	2
Hippurans	1
Thorotrasts	3
Urethrograms	13
Miscellaneous	32
Total	— 864

*Screen examinations—*

Barium meals .. .. .	293
Barium enemas .. .. .	103
Barium swallows .. .. .	18
Lungs .. .. .	89
Heart .. .. .	4
Total .. .. .	507

**4. Massage Department.**

Admitted for treatment .. .. .	440
Treatment completed .. .. .	387
Remaining under treatment .. .. .	53
In-patients .. .. . 256	Treatments .. .. . 5,662
Out-patients .. .. . 184	„ .. .. . 3,952
Total .. .. . 440	Total .. .. . 9,614

**5. Electrical Department.**

Admitted for treatment .. .. .	314
Treatment completed .. .. .	224
Remaining under treatment .. .. .	90
In-patients .. .. .	170
Out-patients .. .. .	238
Total .. .. .	408

Treatments .. .. .	14,988
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**Attendances—**

In-patients .. .. .	2,460
Out-patients .. .. .	4,424
	6,884

**6. Dental Department.**

Extractions (multiple and single) by local and general anæsthetic	573
Scalings, complete .. .. .	18
Dentures .. .. .	28
Repairs and additions .. .. .	12
Total number of patients seen for treatment, examination and advice .. .. .	164
Fillings .. .. .	12
Fractured jaws splinted .. .. .	2
Attendances .. .. .	479

**7. Psychiatric Department.**

Attended for treatment .. .. .	394
Treatment completed .. .. .	324
Remaining under treatment 31.12.36 .. .. .	70
In-patients .. .. . 160	Attendances .. .. . 200
Out-patients .. .. . 234	„ .. .. . 588
Total .. .. . 394	Total .. .. . 788

**8. Maternity Department.***Ante-Natal Clinic.*

Ante-natal sessions held .. .. .	104
Expectant mothers' examined .. .. .	849
Total attendances .. .. .	3,054
Average number per session .. .. .	30
Average number of attendances per expectant mother .. .. .	3.6



Analysis of the 748 deliveries which took place during the year.

									Per cent.						
Mother admitted	..	From ante-natal clinic	..	..	..	..	..	684	91·44						
								Otherwise	..	..	..	..	..	64	8·56
															748
Civil state	..	..	Married	..	..	..	..	680	90·0						
								Unmarried	..	..	..	..	..	68	10·0
															748
Parous state	..	..	Primipara	..	..	..	..	423	56·55						
								Multipara	..	..	..	..	..	325	43·45
															748
Presentation	..	..	Vertex-anterior	..	..	..	..	694							
			Vertex-posterior	..	..	..	..	28							
			Breech-anterior	..	..	..	..	26							
			Breech-posterior	..	..	..	..	4							
			Face	..	..	..	..	..	1						
			Total							753					
5 sets of twins included in above.															

Table showing the method of delivery of the 753 babies born in the department.

Method of Delivery.							Number of Births.	Deaths.		
								Maternal.	Foetal.	Neo-natal.
Natural forces .. .. .							687	2	22	17
Forceps .. .. .							26	—	2	2
Cæsarean section.. .. .							9	—	—	—
Craniotomy .. .. .							1	—	1	—
Breech .. .. .							30	—	6	—
Total .. .. .							753	2	31	19
Surgical inductions .. .. .										6 cases.
Delivered by midwives .. .. .										708 „
Delivered by doctors .. .. .										40 „
Midwife sought medical assistance in .. .. .										47 „
Labour—										Per cent.
Normal .. .. .								655	87·56	
Abnormal .. .. .								88	11·76	
Multiple .. .. .								5	·68	
Total.. .. .								748	100·00	
Birth—										Per cent.
Full-time .. .. .								693	92·03	
Premature .. .. .								29	3·85	
Stillborn .. .. .								31	4·12	
Total.. .. .								753	100·00	
Average weight at birth—ante-natal clinic infants .. .. .									7 lbs. 4 ozs.	
„ „ „ —other infants .. .. .									6 lbs. 7 ozs.	
Infants not entirely breast fed .. .. .									44.	
Anæsthetics given for obstetric purposes .. .. .									82.	
Anæsthetics given for normal cases—										
Chloroform Capsules .. .. .								552		
*Minnetts apparatus .. .. .								135		
								687.		
Average length in days of lying-in period .. .. .									13 days.	

\* Apparatus not in use until October, 1936.

Obstetrical Operations (105).

Cæsarean section	..	..	..	..	..	..	..	9
Manual removal of placenta	..	..	..	..	..	..	..	6
Removal of placenta "Crede's method"	..	..	..	..	..	..	..	4
Version	..	..	..	..	..	..	..	18
Induction of labour	..	..	..	..	..	..	..	8
Forceps delivery	..	..	..	..	..	..	..	26
Craniotomy	..	..	..	..	..	..	..	1
Perineal repair	..	..	..	..	..	..	..	25
Treatment of ante-partum hæmorrhage	..	..	..	..	..	..	..	3
Examination under general anæsthetic	..	..	..	..	..	..	..	5

Maternal Morbidity.

All fatal cases and all cases in which a temperature of 100·4° F. or more is sustained for a period of 24 hours or recurs during that period. (Ministry of Health standard.)

								Ante-natal clinic.	Non-ante-natal clinic.	Total.
Pyrexial cases	..	..	..	..	..	..	..	12	2	14
Deaths	..	..	..	..	..	..	..	1	1	2
Pyrexial cases and maternal deaths	..	..	..	..	..	..	..	13	3	16
Number of women delivered	..	..	..	..	..	..	..	684	64	748
Maternal morbidity—rate per 1,000 delivered	..	..	..	..	..	..	..	19·00	46·87	21·39

Pyrexial Cases.

Live Births.	Mode of Delivery.				Maternal Complications.		Number of cases.	
							Ante-natal clinic.	Non-ante-natal clinic.
1	Natural forces	..	..	..	Retained products	..	1	—
1	Forceps	..	..	..	Persistent occipito	..	1	—
					Posterior episiotomy	..		
1	Natural forces	..	..	..	Laceration perineum	..	1	—
1	„	„	..	..	Manual removal of placenta	..	1	—
1	„	„	..	..	Nil	..	—	1
1	„	„	..	..	Post-partum hæmorrhage—	..	1	—
					morbidity adherent placenta	..		
1	Breech	..	..	..	Procidentia	..	1	—
1	Forceps	..	..	..	Lacerated vagina	..	—	1
					Post-partum hæmorrhage	..		
1	Forceps	..	..	..	Delayed 2nd stage	..	1	—
					Episiotomy	..		
1	Forceps	..	..	..	Delayed 1st and 2nd stages	..	1	—
1	Natural forces	..	..	..	Retained membrane	..	1	—
					Positive Wassermann	..		
1	Cæsarean section	..	..	..	Small round pelvis	..	1	—
S.B.	Craniotomy	..	..	..	Persistent occipito posterior.	..	1	—
	(Admitted after failed forceps)				Prolonged 1st stage.	..		
					Sloughing whole of anterior lip of cervix	..		
1	Cæsarean section	..	..	..	Intestinal adhesions	..	1	—

Total pyrexial cases .. .. . 14

No. of Infants.	Method of Delivery.	Causation.	Mother.		Infant.	
			Primi- para.	Multi- para.	Full Term.	Prema- ture.
24	Natural forces ...	Prolapse of cord (primary) ...	—	1	1	—
		„ „ „ „	1	—	1	—
		Macerated foetus ? cause... ..	1	—	1	—
		Breech, extended legs, maternal P.T. ...	1	—	1	—
		Excessive cranial stress ... ..	1	—	1	—
		Severe mat. toxæmia of pregnancy, pre- maturity ... ..	1	—	—	1
		Macerated foetus, hydrocephalus and spina bifida ... ..	—	1	—	1
		Intracranial hæmorrhage ... ..	1	—	1	—
		Maternal syphilis ... ..	—	1	—	1
		? Intracranial hæmorrhage ... ..	1	—	1	—
		Macerated foetus, prematurity ... ..	1	—	—	1
		Toxæmia of pregnancy ... ..	1	—	—	1
		„ of pregnancy ... ..	—	1	—	1
		Ante-partum hæmorrhage ... ..	—	1	—	1
		Intracranial „ „ „ „	—	1	1	—
		Tear of falx cerebri, severe toxæmia of pregnancy ... ..	—	1	—	1
		Spina bifida ... ..	1	—	1	—
		Hydrocephalus ... ..	—	1	1	—
		Macerated hydrocephalus ... ..	—	1	1	—
		Toxæmia of pregnancy, ante-partum hæmorrhage, fatty changes, liver ...	—	1	1	—
		Extended breech, intracranial hæmor- rhage ... ..	1	—	1	—
		Prematurity ... ..	1	—	—	1
		Macerated foetus, breech, prematurity ...	—	1	—	1
		Macerated foetus, toxæmia of pregnancy	—	1	—	1
		Macerated foetus, head perforated before admission ... ..	1	—	1	—
		Placenta prævia, ante-partum hæmor- rhage ... ..	—	1	1	—
4	Surgical inductions ...	Prematurity. Maternal acute yellow atrophy liver ... ..	1	—	—	1
		Accidental hæmorrhage (mixed type) ...	1	—	—	1
		Macerated foetus-breech anacephalus ...	—	1	1	—
2	Forceps ... ..	Severe toxæmia of pregnancy ... ..	1	—	1	—
		Prolonged cranial stress ... ..	1	—	1	—
1	Failed forceps cranio- tomy.	Toxæmia of pregnancy eclampsia ... ..	1	—	1	—
		Impacted persistent occipito posterior, sloughing cervix ... ..	1	—	1	—

[illegible]



Neo-Natal Deaths.

Details of the 19 Neo-natal Deaths (within 4 weeks of birth).

Method of Delivery.			Maternal Complications.				Cause of Death.				Weight at Birth.	Age.
											lbs. ozs.	
Natural forces	...	...	Hydramnios, premature labour				Congenital pulmonary atelectasis				5 12	28 hours.
"	...	...	Twins				Marasmus				5 8	18 days.
"	...	...	"				"				6 4	19 days.
"	...	...	Nil				Atelectasis				8 12	12 hours.
"	...	...	"				Prematurity				2 0	6 "
Forceps	...	...	Prolonged labour				Intracranial hæmorrhage				9 0	11 days.
Natural forces	...	...	Nil				"				7 14	6 "
"	...	...	Ante-partum hæmorrhage				Prematurity				2 0	2 "
"	...	...	Premature labour				Cardiac failure, prematurity				4 7	½ hour.
"	...	...	"				Prematurity				6 5	3½ hours.
"	...	...	Nil				Intracranial hæmorrhage				5 14	16 days.
Forceps	...	...	Prolonged labour, post-partum hæmorrhage				Intracranial hæmorrhage				7 6	23 hours.
Natural forces	...	...	Nil				Bronchopneumonia				8 2	19 days.
"	...	...	Nil				Intracranial hæmorrhage				5 10	15 hours.
"	...	...	Nil				Prematurity				4 12	11 days.
"	...	...	Nil				Intracranial hæmorrhage				6 9	6 "
"	...	...	Nil				"				6 2	3 "
"	...	...	Nil				Malformation of kidneys				5 12	3 "
"	...	...	Pulmonary tuberculosis				Marasmus				6 12	3 "

Average weight at birth .. .. . 6 lbs.

Summary of Neo-Natal Deaths.

Marasmus	..	..	..	..	..	..	..	..	..	3
Prematurity	..	..	..	..	..	..	..	..	..	4
Prematurity with heart failure	..	..	..	..	..	..	..	..	..	1
Intracranial hæmorrhage	..	..	..	..	..	..	..	..	..	7
Atelectasis	..	..	..	..	..	..	..	..	..	2
Bronchopneumonia	..	..	..	..	..	..	..	..	..	1
Malformation of kidneys	..	..	..	..	..	..	..	..	..	1
										—
										19
										—

Maternal Deaths.

Births.	Mode of Delivery.		Maternal Complication.	Number of cases.	
				Ante-natal clinic.	Non-ante-natal clinic.
S.B.	Natural forces	.. ..	Acute yellow atrophy of liver, toxæmia of pregnancy	—	1
L.B.	" "	.. ..	Sub-acute infective endocarditis, Acute rheumatic carditis, acute chorea	1	—
				1	1

*Analysis of Cases of Normal and Abnormal Pregnancy, Parturition and Puerperium treated in Maternity, Gynæcological and other Wards during the year.*

	Deaths.	Total.
Pregnancy .. .. .	—	20
Pregnancy and spurious labour pains .. .. .	—	54
Toxæmia of pregnancy .. .. .	—	13
Abnormal condition of gravid uterus and ovum .. .. .	—	4
Ectopic gestation .. .. .	—	6
Pregnancy—concomitant disease .. .. .	—	30
Abortion—threatened .. .. .	—	27
„ complete .. .. .	—	111
„ incomplete .. .. .	—	80
„ with local infection .. .. .	2	16
„ with general peritonitis .. .. .	—	2
Labour—normal .. .. .	—	683
„ normal and toxæmia of pregnancy .. .. .	1	5
„ normal and concomitant disease .. .. .	—	36
„ abnormal .. .. .	—	38
„ abnormal and concomitant disease .. .. .	1	2
„ multiple .. .. .	—	5
Puerperium—normal .. .. .	—	13
„ and concomitant disease .. .. .	—	4
Retained products of conception .. .. .	—	6
Puerperium—toxæmia, septicæmia and pyæmia .. .. .	—	2
Mental disorders associated with child-bearing .. .. .	—	7
Total .. .. .	4	1,164

*Maternal Morbidity of Cases of Abortion.*

Cases during the year .. .. .	234
Pyrexial cases .. .. .	14
Deaths .. .. .	2
Pyrexial cases and deaths .. .. .	16

Morbidity per cent. 6·83.

**9. Department of Pathology.**

*Summary of Examinations made during the Year.*

	At Central Middlesex County Hospital.	At other Hospitals.	Totals.
Bacteriology .. .. .	1,134	1,052	2,186
Biochemistry .. .. .	1,325	585	1,910
Other clinical pathology .. .. .	1,154	800	1,954
Morbid anatomy .. .. .	302	262	564
Totals.. .. .	3,915	2,699	6,614

Hospital autopsy rate = 28·3 per cent.





Other Clinical Pathology.																			Morbid Anatomy.								
Haematology.													Serology.						Microscopy and General.						Histology.		Autopsy.
	Full Count.	Red Cells and Haemoglobin.	White Cell Count and Differential.	Reticulocyte Count.	Platelet Count.	Red Cell Fragility.	Bleeding Time.	Coagulation Time.	Sedimentation Test.	Blood Grouping.	Blood Compatibility.	Widal Reaction.	Bacterial Agglutinations.	Complement Fixation Test, Ge.	Wassermann Reaction—Blood.	Wassermann Reaction—C.S.F.	Urine.	Faeces.	Cerebrospinal Fluid.	Exudates and other Fluids.	Parasitic Infections.	Hair for Ringworm.	Other Examinations.	Surgical Specimens.	Post-Mortem Specimens.	Hospital Cases.	Total.
81	—	—	—	—	—	—	—	—	—	—	—	7	—	—	165	50	158	—	50	—	—	—	—	36	88	—	2,121

\* Pregnancy Diagnosis Station, Edinburgh. Willesden General Hospital. St. Mary's Hospital. University College Hospital. Willesden Municipal Hospital. North Middlesex County Hospital.



	Other Clinical Pathology.																				Morbid Anatomy.												
	Hæmatology.												Serology.						Microscopy and General.												Histology.		Autopsy.
	Full Count.	Red Cells and Hæmoglobin.	White Cell Count and Differential.	Reticulocyte Count.	Platelet Count.	Red Cell Fragility.	Bleeding Time.	Coagulation Time.	Sedimentation Test.	Blood Grouping.	Blood Compatibility.	Widal Reaction.	Bacterial Agglutinations.	Complement Fixation Test. Ge.	Wassermann Reaction—Blood.	Wassermann Reaction—C.S.F.	Urine.	Fæces.	Cerebrospinal Fluid.	Exudates and other Fluids.	Parasitic Infections.	Hair for Ringworm.	Other Examinations.	Surgical Specimens.	Post-Mortem Specimens.	Hospital Cases.							
Central Middlesex	126	102	65	37	21	7	8	9	34	36	16	60	5	4	—	—	372	3	124	119	10	0	0	—	—	302							
Other Hospitals	—	—	—	—	—	—	—	—	—	—	—	—	—	4	204	77	—	—	4	—	—	—	—	64	74	—							



## 10. Casualty and Out-Patient Department.

	Patients.	Attendances.
Casualty .. .. .	2,468	2,591
Medical and surgical .. .. .	873	2,052
X-ray .. .. .	1,033	1,033
Massage .. .. .	184	3,952
Electrical .. .. .	238	4,424
Psychiatric .. .. .	234	588
Dental.. .. .	164	479
Totals .. .. .	5,194	15,119
Ante-natal .. .. .	849	3,054
Grand totals .. .. .	6,043	18,173

## 11. Nurses Sick Room.

Number of nurses at 31st December .. .. .	287
Nurses off sick during the year who were admitted .. .. .	133
Nursing days lost .. .. .	1,762
Average number of days lost per sick nurse .. .. .	13.3
Average number of days lost per nurse on staff .. .. .	6.2
Disability—	
Tonsillitis, ear, nose and throat conditions .. .. .	48
Septic infection of skin .. .. .	28
Notifiable diseases.. .. .	16
Genito urinary disease .. .. .	3
Bronchitis and/or pneumonia .. .. .	7
Gastro intestinal disorders .. .. .	7
Painful feet.. .. .	3
Rheumatism .. .. .	7
Influenza .. .. .	5
Injuries .. .. .	2
Miscellaneous .. .. .	7
	133

## Comparative Tables.

	1934.	1935.	1936.
Beds—average daily number occupied .. .. .	782	798	786
Admissions—average daily number .. .. .	17	20	22
Discharges .. .. .	6,211	7,378	8,143
Operations—major .. .. .	505	1,053	1,344
Operations—minor .. .. .	1,118	2,046	1,503
Anæsthetics .. .. .	1,348	1,965	2,087
Dental extractions and treatments .. .. .	320	878	645
Radiological investigations .. .. .	3,352	3,924	5,047
Massage treatments .. .. .	9,430	9,633	9,614
Electro-therapeutic and sunlight treatments .. .. .	10,871	14,601	14,988
Ante-natal clinic—women examined .. .. .	616	778	849
Ante-natal clinic—attendances .. .. .	2,455	3,067	3,054
Confinements .. .. .	620	724	748
Maternal mortality—rate per 1,000 delivered .. .. .	6.45	4.13	2.66
Maternal morbidity—rate per 1,000 delivered .. .. .	27.41	17.93	21.39
Births .. .. .	604	708	722
Still-birth rate (per cent.) .. .. .	3.3	3.7	4.1
Infant mortality rate per 100 total births .. .. .	6.1	7.3	6.6
Infant mortality rate per 100 born alive .. .. .	2.8	3.5	2.6
Pathological investigations .. .. .	3,225	4,159	6,212
Casualty and out-patients .. .. .	1,678	2,168	5,194
Casualty and out-patient attendances .. .. .	4,575	7,803	15,119

H. CARTER,

*Medical Superintendent.*

MARCH, 1937.









